

Abstract

VANE AND METHOD OF CONSTRUCTION THEREOF

Vanes of the type for directing a fluid radially are fabricated by forming the vanes integrally to a support structure made from a sacrificial material which is removed in assembly so that the vanes are supported for operative use. In one embodiment, the vanes are formed in the dams of an annular burner by preforming the vanes supported to a disk; the vanes and disk apparatus is fitted to side plates which are then brazed together and the disk portion and complementary side plate portions are removed, for defining the dam that is affixed to the liner of the annular combustor. Other configurations are contemplated that are tailored to fit the intended embodiment. The vane and support portion made from a sacrificial material constitute an apparatus of this invention.